METHOD AND SYSTEM FOR ASSIGNING OBSERVATIONS

ABSTRACT OF THE DISCLOSURE

According to one embodiment of the invention, a computerized method for assigning observations includes receiving a plurality of first observations indicative of

5 respective physical parameters observed by a first sensor system and receiving a plurality of second observations indicative of respective physical parameters observed by a second sensor system. The method also includes assigning, by a computer, a set of pairs of the first and

10 second observations predicted to correspond to the same physical parameter. The assigning includes receiving a cost function that specifies a cost for each assigned pair. The cost is not independent of the assignment of any other assigned pairs in the set of assigned pairs.

15 The assigning also includes determining the set of assigned pairs corresponding to an optimal value for the cost function by calculating, by the computer, a corresponding optimal value for a directed graph representative of possible assignments of first and

20 second observations.